

# Next Industry Revolution Series: Opportunities & Challenges of Industry 4.0

Half Day Seminar

CPD hours: 3.5 IEM17/HQ/286/S.

## WHEN & WHERE?

**Date:** 25 August 2017

**Time:** 9am – 1pm

**Venue:** Wisma IEM - Tan Sri Chin Fung Kee Auditorium

**Organised by:**

- APEC/IPEA Registration & Administration Committee
- ASEAN Engineering Register

## WHAT IS IT ABOUT?

Around the world, traditional manufacturing industry is in the throes of a digital transformation that is accelerated by exponentially growing technologies (e.g. intelligent robots, autonomous drones, sensors, 3D printing). The pace of change reflects 'Moore's law' on the speed at which information technology-driven change happens. Companies and their industrial processes need to adapt to this rapid change if they are not to be left behind by developments in their sectors and by their competitors. These trends are not to be compared simply with a greater level of production automation, process that has, since the 1970s, been driven by developments in electronics and information technology. The widespread adoption by manufacturing industry around the world of information and communications technology is now paving the way of disruptive approaches to development, production and the entire logistics chain. This networking within an 'internet of things, services, data and people' will transform the future of manufacturing as well as most of the engineering services.

**Postponed  
until further notice**

## PROGRAMME:

|                   |   |
|-------------------|---|
| 0830<br>-<br>0900 | Registration  |
| 0900<br>-<br>0915 | Opening Remarks   |
| 0915<br>-<br>1015 | Industry 4.0: Opportunities And Challengers for Malaysia Small & Medium Industries<br><br>Speaker: Ir. Dr. Tan Chee Fai<br>Universiti Teknikal Malaysia Melaka<br>Perunding IBS Sdn. Bhd. |
| 1015<br>-<br>1030 | Coffee Break  |
| 1030<br>-<br>1130 | Big Data and Analytics for Industry 4.0<br><br>Speaker: Ir. Dr. Leong Wai Yie<br>SmartBrain Sdn. Bhd.   |
| 1130<br>-<br>1230 | Cyber Security and Its Importance In Industry 4.0<br><br>Speaker: Dr. Keoh Sye Loong<br>University of Glasgow   |
| 1230<br>-<br>1300 | Q&A   |

## REGISTRATION FEE:

| Type        | Online    | Normal    | Walk In   |
|-------------|-----------|-----------|-----------|
| Members     | RM 150.00 | RM 200.00 | RM 350.00 |
| Non Members | RM 300.00 | RM 400.00 | RM 450.00 |

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## Half Day Seminar

### ABOUT THE SPEAKERS:

#### Ir. Dr. Tan Chee Fai



Chee Fai is a Practicing Mechanical and Manufacturing Consultant and Innovator. He is graduated with Bachelor of Engineering (Mechanical) and M. Sc. (Manufacturing Systems Engineering) from Universiti Putra Malaysia (UPM), as well as PhD in Industrial Design Engineering from Eindhoven University of Technology (TU/e), the Netherlands. He is a registered Professional Engineer with Practising Certificate (Mechanical), Board of Engineers, Malaysia and a Fellow of Institution of Engineers, Malaysia. Besides, he is a registered ASEAN Chartered Professional Engineer (ACPE), ASEAN Engineer (AE), APEC Engineer and International Professional Engineer (IntIPE). He is the JCI Ten Outstanding Young Malaysian Award 2014 honoree. He is a member of FEIAP Engineering Education Guidelines Review Panel and Malaysia Engineering Accreditation Council Review Panel. He actively involved in academic, publication, consultation as well as

research, design and development activities. His field of expertise covers the aspects of mechanical engineering, manufacturing engineering and industrial design engineering. He has lead various private, university and Malaysia Government funded projects as well as International Funded Projects. He is a UNESCO Individual Specialist, qualified HRDF trainer, NIOSH trainer and HRDF Recognition Prior Learning (RPL) Assessor. Currently, Ir. Dr. Tan is actively conducting voluntary Industry 4.0 awareness roadshow to Malaysia small and medium manufacturing industries.

#### Ir. Dr. Leong Wai Yie



Wai Yie received her PhD in Electrical Engineering from the University of Queensland (UQ), Brisbane, Australia in 2005. She has authored 6 book series and more than 10 papers that highlight the innovation on Electronics and Biomedical Signal Processing. Wai Yie is currently the Executive Committee and Council Member of The Institution of Engineers Malaysia, Chairman of Women Engineers Section, Malaysia, Honorary Secretary of Women Engineers, The ASEAN Federation of Engineering Organisations (WEAFEO), and Vice President of The Institution of Engineering and Technology (Malaysia Local Network). She is specialized in big data analysis, medical signal processing and telecommunications, and has received the Australia Richard Jago Research Prize in 2004 and Australia Trailblazer Innovation Award in 2005. Wai Yie has been actively involving in Women In Technology (Brisbane) and has received the Smart-State-Smart-Women Award presented by Queensland Government, Australia, in 2005. She is the CEO of SmartBrain Sdn.Bhd, and has over 10 years research and industry experience in Australia, Singapore, United Kingdom

and Malaysia, with special interest in biomedical signal & image processing, smart control, telecommunications and wireless sensor networks. She also the 2013 Young Scientist (by Academy of Sciences Malaysia), and has been appointed as a member of Young Scientists Network-Academy of Sciences Malaysia (YSN-ASM). LEONG Wai Yie is currently the Secretary of Rawang Wuxing Taiji Association. She has participated in National and International Wushu Tournaments winning more than 30 Wushu awards including traditional Taichi, Taichi sobre, Taichi fan and Taichi sword.

#### Dr. Keoh Sye Loong



Sye Loong Keoh is an Assistant Professor in the School of Computing Science, University of Glasgow, Singapore. He obtained his PhD in computing science from Imperial College London in 2005. Prior to joining Glasgow, he was a Senior Scientist at Philips Research Eindhoven (2008 - 2013) and a Postdoctoral Research Associate at Imperial College London (2005 - 2008). While working at Philips Research, he was responsible for standardizing Digital Rights Management (DRM) technology for content protection. He was also involved in projects related to medical security and security protocols design for Philips lighting systems.

He has been actively contributing to the standardization of security protocols for Internet of Things (IoT) in the Internet Engineering Task Force (IETF) since 2011, specifically he contributes to the Constrained Restful Environment (CoRE), DTLS in Constrained Environment (DICE) and Lightweight Implementation Guidance (LWIG) working groups.

His research interests include policy-based management, building and home automation, security protocol design, security and trust management, Internet of Things and pervasive computing.

#### \*Terms and Conditions apply

- Limited seats, register early to avoid disappointment.
- Payment must be settled in full before the commencement of the seminar.
- For payment made on the seminar day, the walk in rates will be applied.
- Registration fee is non refundable.
- For no show participants, full payment is to be settled.
- Registration Fee not inclusive of GST
- The Organising Committee reserves the rights to alter, change, cancel the programme due to unforeseen circumstances.

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